NickWash 600

User's Manual Rel 1.2 GB

A001

DTS

The Lighting Company

Made in Italy

INDEX

1- SYMBOLS

Graphic symbols used on this manual

THIS SYMBOL INDICATES A HOT SURFACE
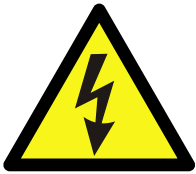
THIS SYMBOL INDICATES ELECTRIC SHOCK RISK

THIS SYMBOL INDICATES GENERAL RISK

THIS SYMBOL MEANS "DO NOT PLACE THE UNIT ON INFLAMMABLE SURFACES"

0,5M THIS SYMBOL INDICATES THE MINIMUM DISTANCE TO BE KEPT BETWEEN THE DEVICE AND THE LIT OBJECT

2- GENERAL WARNING

Read the instruction contained in this user manual carefully, as they give important information regarding safety during installation , use and maintenance.
The device is not for domestic use and must be installed by a qualified electrician or experienced person.
Always disconnect the device from the mains before replacing the lamp.
The lamp must be replaced if it has been damaged or deformed by prolonged use or overheating.
The device must always be equipped with an efficient ground connection.

3- GENERAL WARRANTY CONDITIONS

The unit is guaranteed for 24 months from the date of purchase against manufacturing material defects.

4- TECHNICAL FEATURES

Overview
NICK WASH 600 is a self-contained compact high-output LED moving head projector with 13,5° - 40° motorized zoom.
NICK WASH 600 is one of the brightest compact LED projectors on the market: luminosity at 5 m is no less than 3.100 Lux (13,5°).

Applications
NICK WASH 600 is ideal in various applications, such as: lighting shopping malls, libraries, museums, exhibitions, clubs, restaurants, buildings, monuments, as well as special events, fashion displays, etc.
The unit is easily installable even in the most refined settings, thanks to its attractive appearance.

LED technology
NICK WASH 600 light source is composed of 120 LEDs (30 Red,30 Green, 30 Blue, 30 White) with 9.750 total lumens.
The LEDs even distribution pattern featuring the same quantity of red, green, blue and white LEDs guarantees high colour mixing quality and a uniform projection on surfaces, no matter what colour is used.
NICK WASH 600 offers 2 different colour mixing modes (RGBW / CMY) and can generate 16 million colours; colour temperature can be varied over a linear range from 2800°K to 6500°K.
Also, users can memorize a personalized white either from the menu or via DMX. The white is recalled with the dedicated DMX "White" channel.
NICK WASH 600 is also available with 90 White +30 Amber LEDs, or in an RGBA version (on request).

Zoom . Pan/Tilt . Full-range power supply
NICK WASH 600 features a motorized linear Zoom (13,5°- 40°) with a high efficiency optics system; zoom movement is smooth and uniform.
NICK WASH 600 features a motorized movement on horizontal (540° pan) and vertical (270° tilt) axes; the unit can operate in vertical, horizontal or inverted positions, and can be positioned on the floor or ground, or fitted to trusses; it is complete with a practical accessory for anchorage to the ground.
The NICK WASH 600 FAR features also a Free Axis Rotation ("FAR") system.
The FAR allows limitless pan and tilt rotation: the NICK head rotates freely on its axes, horizontally or vertically, without interruption, in either direction, never having to reverse motion.
NICK WASH 600 has a full-range AC 90-260 V, 50-60 Hz power supply, therefore ensures reliable operation even in the case ofvoltage drops. Also, the unit can be used all over the world with no specific adaptations, as the right voltage is always supplied.

NICK WASH 600
03.LDR005.T Electr. Power Supply, Motorized Zoom, Black colour
03.LDR005.TF Electr. Power Supply, Motorized Zoom, F.A.R. system, Black colour
03.LDR005.TWS Electr. Power Supply, Motorized Zoom, Wireless DMX ready, Black colour

5- TECHNICAL SPECIFICATIONS

LED technology
120 LEDs (30 Red, 30 Green, 30 Blue, 30 White); total luminous flux 9.750 Lumens
RGBW colour generation (16 million colours); 3 different colour mixing modes: RGBW, CMY, HSV
Colour temperature variable on a linear range (2.800°K÷6.500°K); no infrared / no ultraviolet emissions
LEDs average lifespan: 100.000 hours
Zoom
Motorized Zoom 13,5°- 40°
User interface
OLED colour display + 4 buttons

5- TECHNICAL SPECIFICATIONS

Independent operation
Fully programmable via built-in user interface
Master or Slave capability (chains of up to 32 interconnected units)
Remote control
Remotely controlled by cable or wireless;
USITT DMX 512 serial digital protocol (reception / transmission)
DMX
17-20 DMX channels
Protection
IP20 protection rate
Movements (horizontal/pan – vertical/tilt axes)
Motorized movement 540° Pan (2.0 sec) / 270° Tilt (1.2 sec)
Free Axis Rotation ("FAR") system;
Power supply / consumption
Full range AC 90-260V, 50-60Hz
Power consumption:
* 90 V – 2,65 A – 240 W * 120 V – 2 A – 240 W * 230 V – 1 A – 240 W * 260 V – 0,9 A – 240 W
Thermal
Operating ambient temperature - 10° / + 40°
Finishes
Black or white finish
Certification and Safety
Certification CE;
LED Class
Class 2 LED product
Weight
7,9 Kg

Dimensions

Unit Dimensions (LxWxH)	Packaging Dimensions (LxWxH)
360x217x440mm	430 x 515 x 290 mm
Weight:	Weight:
7,9 Kg	10 Kg
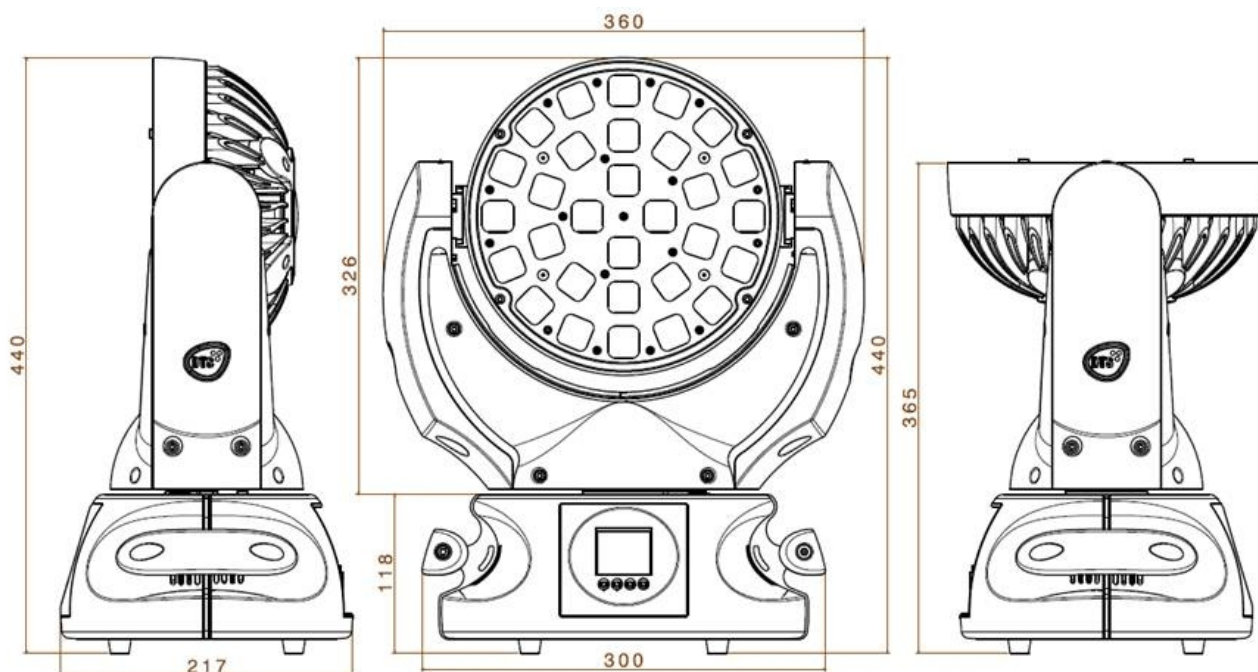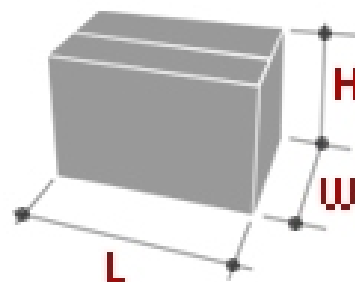
6- ACCESSORIES

As standard
03.LDR005.T Electr. Power Supply, Motorized Zoom, Black colour
03.LDR005.TF Electr. Power Supply, Motorized Zoom, F.A.R. system, Black colour
•1 x POWERCONN male cable connector (cod. 0520P014)
•1 x XLR 5 Pins male cable connector (cod. 0508B028)
•1 x XLR 5 Pins female cable connector (cod. 0508B027)
•1 x "C" Clamp GQUICK with "Fast Lock" connection 1/4 turn (max. load. 80Kg) (cod. 0521A014)
• User's manual

03.LDR005.TWS Nick Wash 600 Electr. Power Supply, Motorized Zoom, Wireless DMX ready, Black colour
• 1 x INDOOR IP20 omnidirectional 2dBi antenna cod. 0508A033
•1 x POWERCONN male cable connector (cod. 0520P014)
•1 x XLR 5 Pins male cable connector (cod. 0508B028)
•1 x XLR 5 Pins female cable connector (cod. 0508B027)
•1 x "C" Clamp GQUICK with "Fast Lock" connection 1/4 turn (max. load. 80Kg) (cod. 0521A014)
• User's manual

Optional (on request)
Flight cases
• Professional Flight case for 4 units; compartment for accessories, swivel wheels, cover with hinges with-stay, dishes on cover for piling, 8 handles (2 eachside) (cod. 0521C046.1)
Wireless DMX receivers retrofits (for 03.LDR005.T)
• Wireless DMX Receiver Card with INDOOR IP20 omni. 2dBi antenna included (cod.03.LA.117)
Clamps / safety wires
• "C" Clamp G60 black (max. load 50Kg) (cod. 0521A004)
• "C" Clamp G60 chrome (max. load. 50Kg) (cod. 0521A004.20)
• "C" Clamp GQUICK with "Fast Lock" connection 1/4 turn (max. load. 80Kg) (cod. 0521A014)
• "C" Clamp G100 black / professional (max. load. 200Kg) (cod. 0521A015)
• Omega clamp with "Fast Lock" connection 1/4 turn 1 couple (2 pieces) (Cod. 02K00467)
• Safety wire (3mm x 60 cm), ring spring catch, max. capacity load 60Kg (cod. 0521A010)

7- IMPORTANT SAFETY INFORMATION

7.1 Fire prevention:
-Never locate the fixture on any flammable surface.
-Minimum distance from flammable materials: 1 MT.
-Minimum distance from the closest illuminable surface: 0,5 MT.
-Replace any blown or damaged fuses only with those of identical value. Refer to the wiring diagram if there is any doubt.
-Connect the projector to mains power via a thermal magnetic circuit breaker.

7.2 Prevention of electric shock:

-High voltage is present inside the unit. Unplug the unit prior to performing any function which involves touching the inside of the moving head.
-The level of technology inherent in the NICK WASH 600 requires the assistance of specialised personnel for all servicing. Please refer to an authorised DTS service centre.
-A good earth connection is essential for proper functioning of the projector.
-Never connect the unit without proper earth connection.
-The fixture should be located in places with a good air ventilation.

7.3 Safety:

-The projector should always be installed with bolts, clamps and other tools that are capable of supporting the weight of the unit.
-Always use a second safety cable to sustain the weight of the unit in case of the failure of the main fixing point.
-The external surface of the unit, at various points, may exceed 70°C. Never handle the unit until at least 10 minutes have elapsed since the projector was turned off.
-Never install the fixture in an enclosed area lacking sufficient air flow. The ambient temperature should not exceed 40°C.

7.4 Level of protection against the penetration of solid and liquid objects:

-The projector is classified as an ordinary appliance and its protection level against the penetration of solid and liquid objects is IP 20.

8- VOLTAGE AND FREQUENCY

The NICK WASH 600 can operate at 90-260 VOLT 50 or 60 Hz.

9- INSTALLATION

NICK WASH 600 may be either floor or ceiling mounted.
For floor mounting installations, the NICK WASH 600 is supplied with four rubber mounting feet on the base.
For ceiling mounted installations, we reccomend the use of appropriate clamps to fix the unit to the mounting surface.
The supporting structure from which the unit is hung should be capable of bearing the weight of the unit, as should any clamps used to hung it. The structure should also be sufficiently rigid so as not to move or shake whilst the NICK WASH 600 is moving.
Two 1/4 turn Fast Locks connections placed in the base of the units allow to hang the NICK WASH 600 by using the Fast Lock 'C' clamps provided in the box.
.

9.1- Safety cable

We recommend the use of a safety chain/cord connected to the NICK WASH 600 and to the suspension truss in order to avoid the fixture accidentally falling should the main fixing point fail. Make sure that the iron cable or chain can bear the weight of the entire unit.
You may attach the safety chain/cord to the attachment point (A) located on the base of the fixture, as shown in the picture below.

SAFETY CHAIN/CORD
ATTACHMENT POINT

A
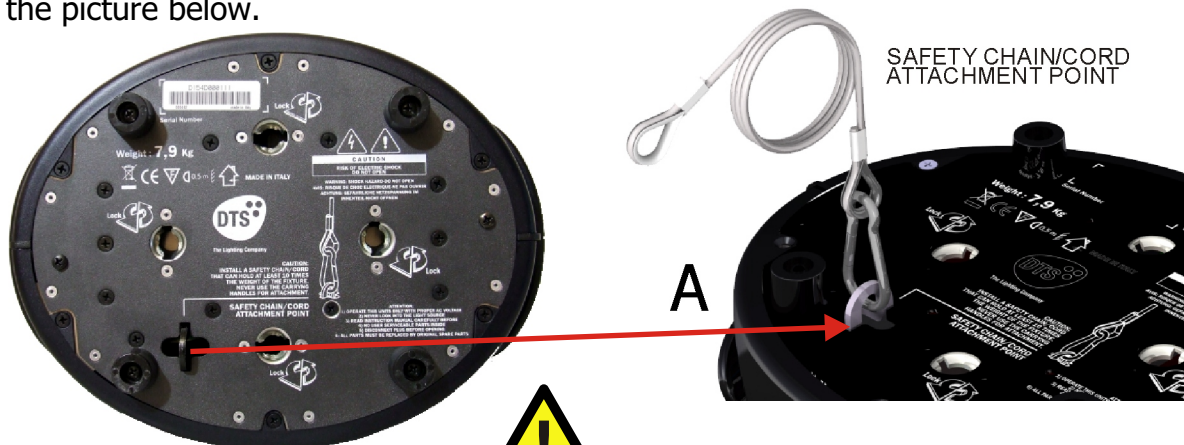
9.2- Protection against liquids

The projector contains electric and electronic components which should under no circumstances come into contact with oil, water or any other liquid. The proper unit functioning would be compromised should this occur.

9.3- Movement

Unlimited Pan rotation; unlimited Tilt rotation (NICK WASH 600 ZOOM F.A.R.)
Pan 540° (2,0 sec.), Tilt 270° (1,2 sec.) (NICK WASH 600 ZOOM)

Free Axis Rotation ("F.A.R.")

270°

540°

WARNING
Do not place any object in the path
of the projector's movement

No Free Axis Rotation ("F.A.R.")

9.4- Risk of fire

Each fixture produces heat and must be installed in a well-ventilated place. The minimum recommended distance from flammable material is 1 MT.

Minimum distance from the object being illuminated is 0,5 MT.   ◁ 0,5M

9.5- Forced ventilation

You will note, on inspection, that the unit features various air inlets and cooling fans located on the head of the fixture. These should, under no circumstances, be blocked or obstructed whilst the projector is in operation.
Doing so could cause the fixture to seriously overheat thereby compromising its proper operation.

9.6- Ambient temperature

The projector should never be installed in places that lack a constant air flow. The ambient temperature should NOT exceed 40°C.

10- MAINS CONNECTION

03.LDR005.T
03.LDR005.TF

NICK WASH 600 operate at 90-260 VOLT 50-60 Hz.
Prior to connecting the unit to your mains supply,
ensure that the model in your possession correctly matches
the mains supply available. For connection purposes,
ensure that your plug is capable of supporting 1,5 amps at 230V,
Or 3 amps at 90 V
Strict adherence to regulatory norms is strongly recommended.

Mains
90-260V AC 50 / 60Hz

03.LDR005.TWS

Netzanschluss
90-260V AC 50 / 60Hz

10.1- Protection

The use of a thermal magnetic circuit breaker is recommended for each
NICK WASH 600.

11- DMX SIGNAL CONNECTION

The unit operates using the digital DMX 512 (1990) signal. Connection between the mixer and the projector or between projectors must be carried out using a two pair screened ø 0.5 mm cable and a XLR 5 or 3 pins connector. Ensure that the conductors do not touch each other. Do not connect the cable ground to the XLR chassy

The plug housing must be isolated. Connect the mixer signal to the DMX IN projector plug and connect it to the next projector by connecting the DMX OUT plug on the first projector to the DMX IN plug of the second one.

This way, all the projectors are cascade connected.

NB. <u>If the display showing the DMX address flashes, then one of the following errors has occurred:</u>

       - DMX signal not present
       - DMX address not valid
       - DMX reception problem

CONTROLLER
STANDARD
DMX 512

1=GND
2=DATA-
3=DATA+
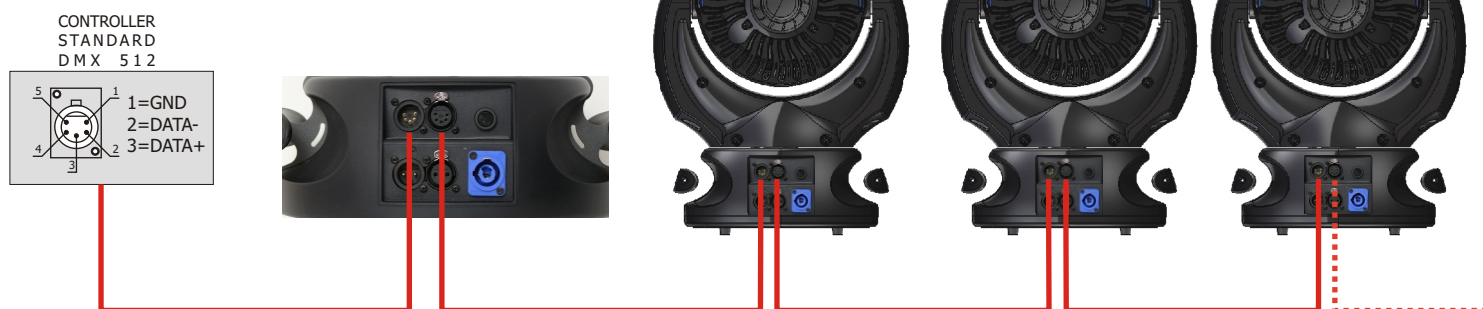
For Installations where long distance DMX cable connections are needed, we suggest to use a DMX terminator.

The DMX terminator is a male XLR 3-5 pins connector with a 120 ohm resistor
Between pin 2 and 3.

The DMX terminator must be plugged into the last unit (DMX out panel connector) of the DMX line.

OUT
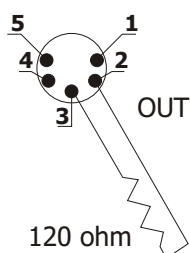
120 ohm

PLACE A 120 OHM RESISTOR BETWEEN PIN 2
AND 3 OF A MALE XRL CONNECTOR AND PLUG IT
INTO THE DMX OUT PANEL CONNECTOR OF THE
LAST UNIT CONNECTED TO THE DMX LINE

PIN 3

PIN 2
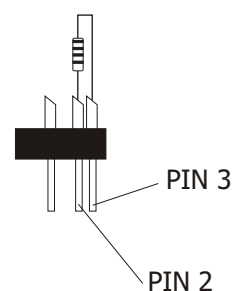
11.1-DMX Addresses

NICK WASH 600 can be used in 2 different DMX modes: 17 DMX control channels (default for NO FAR models) , 20 DMX control channels (default for FAR model).
Here below is described the DMX channels addressing for the controller when NICK WASH 600 is set to 17 and 20 DMX control channels :

17 channels mode (default for NO FAR models)
Projector 1   A001
Projector 2   A018   If you want to select the next projector, just add "17"
Projector 3   A035
.....   A....
projector 6   A086

20 channels mode (default for FAR model)
Projector 1   A001
Projector 2   A021   If you want to select the next projector, just add "20"
Projector 3   A041
.....   A....
projector 6   A101

11.2-Selecting the DMX address

1) Press the UP-DOWN key until you reach the required DMX channel. The numbers on the display will start to flash (but the new DMX address hasn't yet been set).
2) Press ENTER to confirm your selection. The numbers on the display will stop flashing and the projector is now setted to the new DMX address.
TRICKS:
 if you keep pushed the UP or DOWN keys, the channels are calculated more quickly and you get a faster selection.

12 FIRMWARE UPDATING

Warning:
This procedure require a base knolewge of computer applications and Windows Hyperterminal program. **Please refer to an authorised D.T.S. service centre.**

To update the software version of the NICK WASH 600 you will need:
D.T.S. RED BOX interface (D.T.S. Code: 03.LA.008).
USB-DMX Driver for the D.T.S. RED BOX interface .
D.T.S. Firmware upgrade utility program.
(The driver and the installation procedure are available in our web site www.dts-lighting.it)

Updating the software version.
Please follow the procedure below to perform the update:

1. Install the D.T.S. RED BOX USB-DMX driver on the PC you will use to update the unit software.
2. Connect the D.T.S. RED BOX interface to the PC by using a USB cable.
3. Connect the D.T.S. RED BOX interface to the fixture by using a DMX cable.
4. Download the new software version into the unit by using D.T.S. Firmware upgrade utility program.

DISPLAY

A001

Menu Enter Down Up

DFP Digital Function Panel

MENU

ENTER

UP

DOWN

2dBi IP20
omnid.Antenne

Sicherung 5AT
(5x20mm)

DMX Ausgang

DMX Eingang

Netz Eingang
elektronisches Schaltnetzteil
90-260V AC, 50/60Hz

DMX Ausgang

DMX Eingang

Sicherung 5AT
(5x20mm)

DMX Eingang

DMX Ausgang

Netz Eingang
elektronisches Schaltnetzteil
90-260V AC, 50/60Hz
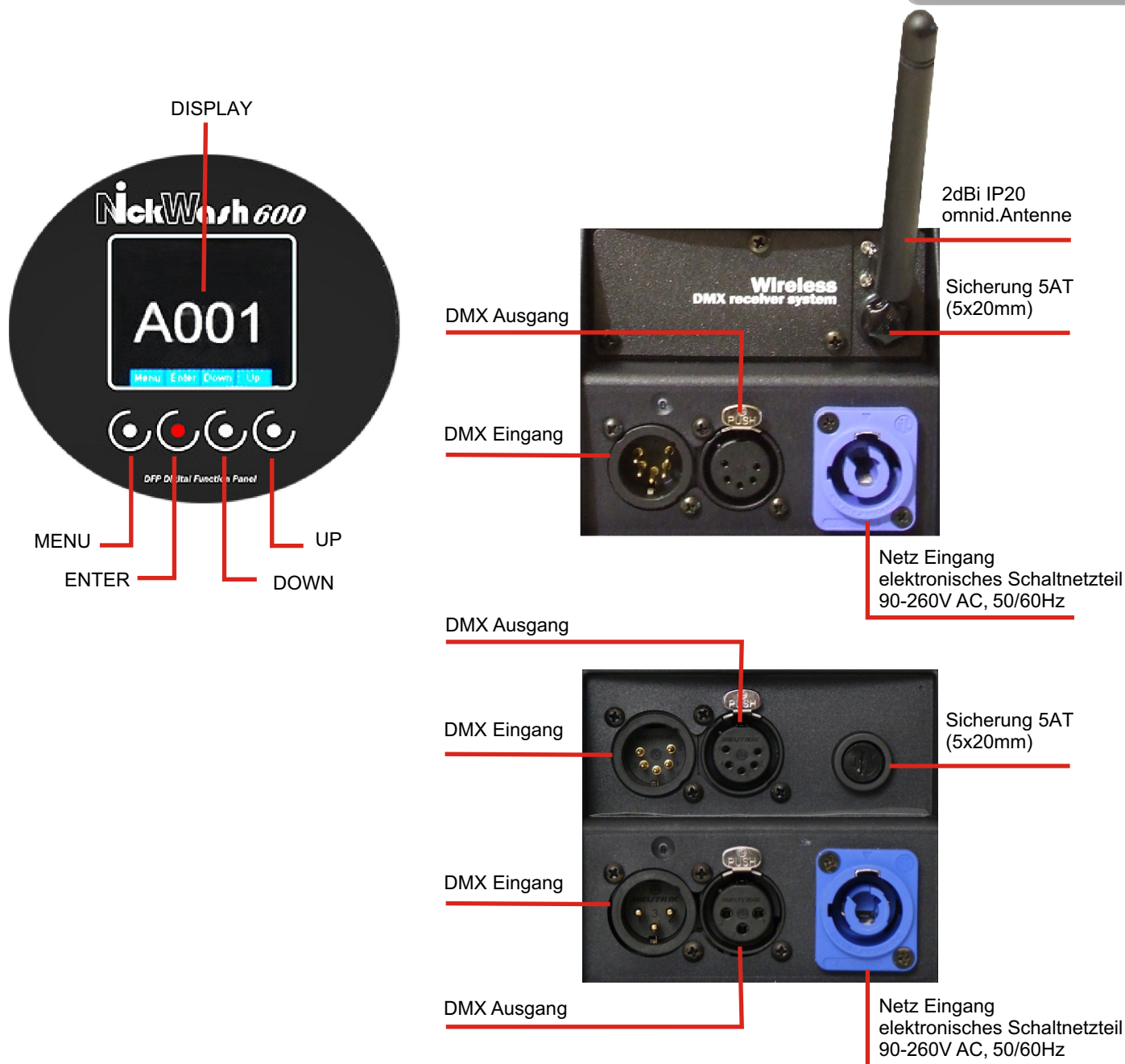
DISPLAY FUNCTIONS

The NICK WASH 600 display panel shows all the available functions . Using these functions, it is possible to change some of the parameters and add some functions. Changing the DTS setting can vary the functions of the unit so that it does not respond to the DMX 512 used to control it. Carefully follow the instructions below before carrying out any variations or selections.

Software version 1.19

NOTE: the symbol ☞ shows which ☞ used to obtain the desired function.

Menu Up-Down   Display   ENTER Up-Down   Display Position   ENTER

DISPLAY POSITION / STAND BY

Display Position:
Reverses display's reading depending on the mounting position
(On the ground or suspended).

Display Standby:
To turn off the display (after 5 seconds)
Or leave it always on.

DISPLAY
POSITION
AA
MENU ENTER DOWN UP
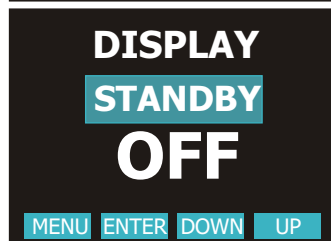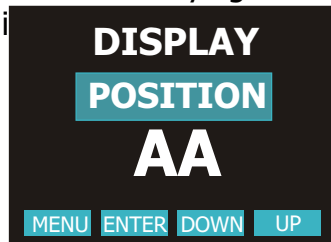
Display Position
ON THE GROUND (Default)
SUSPENDED

☞ ENTER

DISPLAY
STANDBY
OFF
MENU ENTER DOWN UP

Display Standby
OFF = Display Standby disabled (Default)
ON = Display goes OFF after 5 seconds

☞ ENTER

13- DISPLAY FUNCTIONS

👉👉 DMX Set   👉👉
Menu Up-Down   ENTER Up-Down

DMX MODE / MACRO
DMX Mode
To select DMX mode : 17 ch (default for NO FAR models) or 20 DMX channels (default for FAR model).

Macro
Macro Function, enable channel mapping macro rainbow effects
STD (default)

DMX SET
DMX MODE
17 ch not FAR
MENU ENTER DOWN UP

DMX SET
DMX MODE
20 ch With FAR
MENU ENTER DOWN UP

DMX SET
MACRO
STD
MENU ENTER DOWN UP
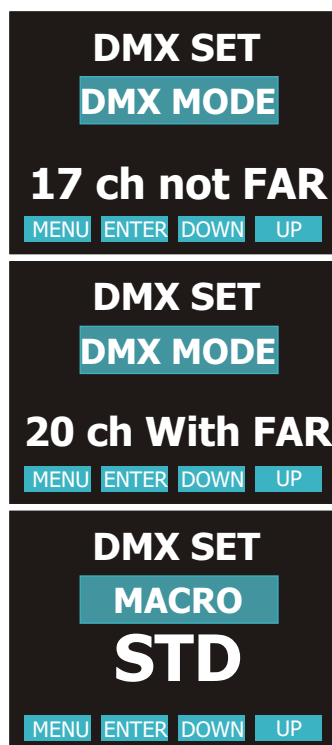
DMX mode
17 channels (Default for NO FAR MODELS)
20 channels (Default for FAR model)

👉 ENTER

MACRO
Standard mode enabled (Default)
Extended mode enabled: Rainbow effects on MACRO channel

👉👉 LED   👉👉
Menu Up-Down   ENTER Up-Down

RGBA MINIMUM VALUES
This menu allow to select the minimum levels for Red, Green, Blue and Amber/White

RGBA MAXIMUM VALUES
This menu allow to select the maximum levels for Red, Green, Blue and Amber/White

These settings have priority on Master Dimmer (DMX channel 7)

SMOOTH VALUE
This menu allow to select the value of the delay (in millisecons) for RGBA and Dimmer channels reaction to DMX or Program variation.
4 = 25 ms delay (Fast response)
20 = 250 ms delay (Slow response)

GAMMA CORRECTION
This menu allow to select between Linear current output or Quadratic current output for LEDs.
Default = Linear

OUTPUT FREQUENCY
This menu allow to adjust the PWM frequency value (Hz) in order to reduce flickering in the process of your camera recordings

BOOST DRIVING
This menu allow to increase the LED's current from 350mA to 500 mA

LED
RED MIN
0
MENU ENTER DOWN UP

LED
GREEN MIN
0
MENU ENTER DOWN UP

LED
BLUE MIN
0
MENU ENTER DOWN UP

LED
AMBER MIN
0
MENU ENTER DOWN UP

LED
SMOOTH
4
MENU ENTER DOWN UP
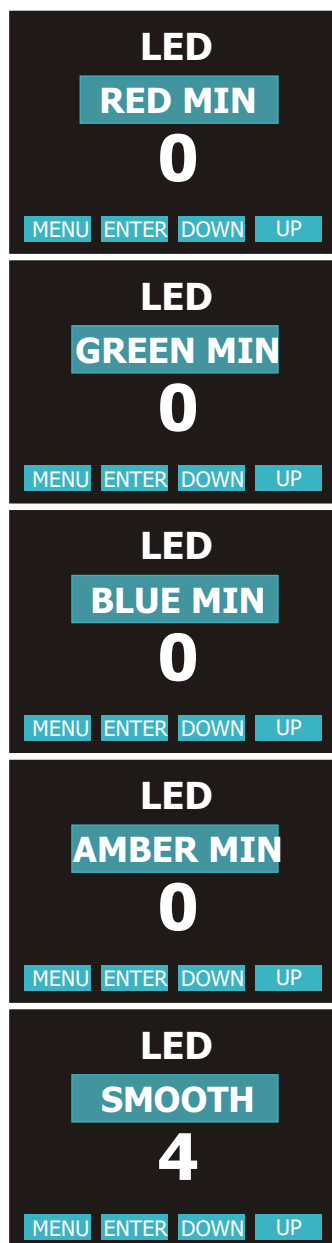
RED Min default =0
RED Max default = 255

👉 ENTER

BLUE Min default =0
BLUE Max default = 255

GREEN Min default =0
GREEN Max default = 255

AMBER Min default =0
AMBER Max default = 255

SMOOTH
Range = Off - 20
Default = 4

13- DISPLAY FUNCTIONS

LED
(Menu, Up-Down) (ENTER, Up-Down)

GAMMA CORRECTION
This menu allow to select between Linear current output or Quadratic current output for LEDs
Default = Linear

OUTPUT FREQUENCY
This menu allow to adjust the PWM frequency value (Hz) in order to reduce flickering in the process of your camera recordings

BOOST DRIVING
This menu allow to increase the LED's current from 350mA to 500 mA

LED
GAMMA CORR.
LINE
MENU ENTER DOWN UP

LED
OUTPUT FREQ.
610
MENU ENTER DOWN UP

LED
BOOST
ON
MENU ENTER DOWN UP
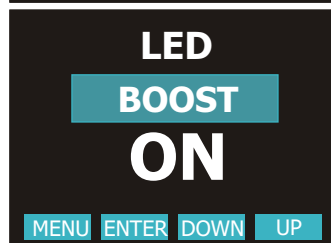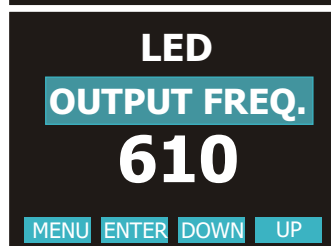
GAMMA CORRECTION
Linear = Linear courrent output
Quadratic = Linear light output
(ENTER)

OUTPUT FREQUENCY
Range = 610 Hz -10 KHz
Default = 610 Hz

BOOST
Whit BOOST active,the LED's current is set to 500mA (30% more gain).
Default = Enabled

AUTO
(Menu, Up-Down) (ENTER, Up-Down)

AUTOMATIC MODE
Automatic demo game without DMX controller.

STEP 01/16
Chase with 16 steps previously created in REC MODE
Speed time, Wait time, Dimmer, Pan, Tilt and Zoom values selectable by user.

PERSONAL COLOURS
RGBA, Dimmer, Shutter, Pan, Tilt and Zoom values selectable by user.

RAINBOW
Rainbow colours effect.
Speed time, Dimmer, Shutter, Pan, Tilt and Zoom values selectable by user.

FIXED COLOURS
Sixteen Colour Macros as on "MACRO" channel.
Dimmer, Shutter, Pan, Tilt and Zoom values selectable by user.

WHITE MACROS
Sixteen macros for White color from 2800 to 6500 ° K.
Dimmer, Shutter, Pan, Tilt and Zoom values selectable by user.

AUTO
SURE?
Menu - NO
Enter - YES
MENU ENTER DOWN UP

AUTO-PROGRAM
STEP
01/16
MENU ENTER DOWN UP

AUTO-PERS.COL.
RED
120
MENU ENTER DOWN UP

AUTO-RAINBOW
SPEE
0010
MENU ENTER DOWN UP

(ENTER)
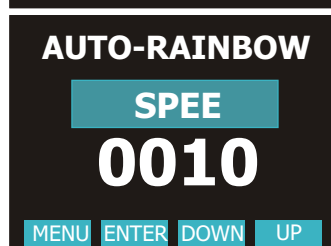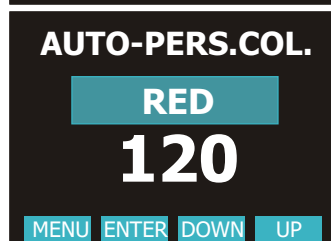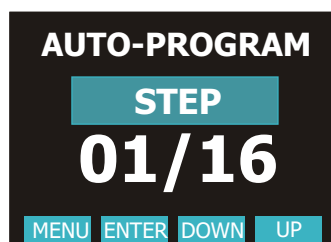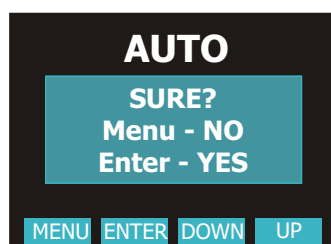
13- DISPLAY FUNCTIONS

☞ ☞ AUTO
Menu Up-Down

AUTOMATIC MODE
Automatic demo game without
DMX controller

FIXED COLOURS
Sixteen Colour Macros as on
"MACRO" channel.
Dimmer, Shutter, Pan, Tilt and
Zoom values selectable by user.

WHITE MACROS
Sixteen macros for White color
from 2800 to 6500 ° K.
Dimmer, Shutter, Pan, Tilt and
Zoom values selectable by user.

☞ ☞
ENTER Up-Down

AUTO-FIXED COL.
COLOR
1
MENU ENTER DOWN UP

AUTO-WHITE
WHITE NO.
1
MENU ENTER DOWN UP

☞
ENTER

By setting all the units connected to
the MASTER, to DMX address 1,
them will be sinchronized with the
Master unit following the chase
selected on it, including TIME, WAIT,
Pan&Tilt and Zoom position of the
MASTER unit.

☞ ☞ SLAVE
Menu Up-Down

SLAVE MODE SETTING
This menu allow to set the Nick
Wash 600 as slave unit.
<u>DMX signal must be present from
MASTER unit (set in AUTO MODE)
in order to ran the units in SLAVE
mode.</u>
By setting all the SLAVE units
connected to the MASTER, to
DMX address 1, them will be
sinchronized with the Master unit
following the chase selected on it,
but running their own Pan&Tilt
and Zoom position.

☞ ☞
ENTER Up-Down

SLAVE
SURE?
Menu - NO
Enter - YES
MENU ENTER DOWN UP

SLAVE
PAN
128
MENU ENTER DOWN UP

SLAVE
TILT
128
MENU ENTER DOWN UP

SLAVE
ZOOM
0
MENU ENTER DOWN UP

☞
ENTER

The SLAVE unit receive DMX signal
from the MASTER unit.
By setting all the SLAVE units
connected to the MASTER, to DMX
address 1, them will be sinchronized
with the Master unit following the
chase selected on it, but running
their own Pan&Tilt and Zoom
position.

13- DISPLAY FUNCTIONS

WIRELESS

WIRELESS DMX
Wieless DMX enabled / disabled.
By activating WDMX MODE, it will
be possible to control Nick Wash
600 via D.T.S. ANTENNA Wireless
DMX Transmitter (cod. 03.E1271).
**WIRELESS DMX system is
already installed on Nick Wash
600 with code 03.LDR005.TWS
WIRELESS DMX system on
Nick Wsh 600 with code
03.LDR005.T and
03.LDR005.TF is available on
request.**

WIRELESS
SELECTION
OFF
MENU ENTER DOWN UP

WIRELESS DMX SYSTEM
DISABLED

WIRELESS
SELECTION
ON
MENU ENTER DOWN UP

WIRELESS DMX SYSTEM
ENABLED

WIRELESS
UNLINK
MENU ENTER DOWN UP

UNLINK = LOG OUT

Logging on Nick Wash 600 (WIRELESS DMX must be enabled on the unit)

To log on the NICK WASH 600 in the WIRELESS system simply press and quickly release the function button on the transmitter .
The transmitter will start flashing rapidly red/green scanning for new free receivers / NICK WASH 600 units. When a NICK WASH 600
logs on to the transmitter the LINK green light on transmitter starts to flash rapidly.
After approximately 10 seconds the transmitter will jump back to normal mode and continue transmitting data. The NICK WASH 600
now try to synchronize to the transmitter.
When synchronized to the transmitter, 2 different modes are possible:
1. Antenna transmitter has detected and transmits a DMX signal, in this mode a solid green light is seen on the transmitter and solid
display is seen on NICK WASH 600.
2. No DMX signal connected, the Antenna transmitter will flash red/green; display blinking on NICK WASH 600

To log off NICK WASH 600 from a transmitter simply select UNLINK function under WIRELESS DMX MENU and press ENTER.
When NICK WASH 600 is logged off the display is blinking, meaning its available for log in on a new transmitter.

Logging out a NICK WASH 600
Select UNLINK function under WIRELESS DMX MENU and press ENTER.
When Nick Wash 600 is logged off the display is blinking, meaning its available for log in on a new transmitter.

Logging out all NICK WASH 600 linked to a transmitter
Press and hold the function button of the transmitter for about 3 seconds. When the display is blinking on Nick Wash 600, it mean
that the units are logged out.

Transmitter, Status LED
Flashing red/green, no dmx connected.
Solid green, dmx signal detected and transmitted.
Fast flashing red/green, log in mode (every free Nick Wash 600 unit, not logged in to any other transmitter, will be logged on)

NICK WASH 600 Status
Display blinking, not logged on to a transmitter (free).
Solid display, logged on to a transmitter and receiving dmx data.

13- DISPLAY FUNCTIONS

☞ ☞ EMERGECY
Menu Up-Down

EMERGENCY
Emergency operating mode.
By setting Emergency mode, it
will be possible to select one of
the 16 preprogrammed WHITE
cues that will then ran if DMX
signal is missing or not available.
Usefull for Emergency EXIT
ilumination on public areas.
Dimmer leveL, Pan&Tilt and
Zoom values selectable by user.

☞ ☞
ENTER Up-Down

EMERGENCY
SELECTION
OFF
MENU ENTER DOWN UP

EMERGENCY
Disabled = Default

☞
ENTER

EMERGENCY
SELECTION
ON
MENU ENTER DOWN UP

EMERGENCY
Enabled

EMERGENCY
WHITE
1
MENU ENTER DOWN UP

WHITE 1-16
Default = WHITE 1

EMERGENCY
DIMMER
255
MENU ENTER DOWN UP

DIMMER
Default = 255

EMERGENCY
PAN
128
MENU ENTER DOWN UP

PAN
Default = 128

EMERGENCY
TILT
128
MENU ENTER DOWN UP

TILT
Default = 128

EMERGENCY
ZOOM
0
MENU ENTER DOWN UP
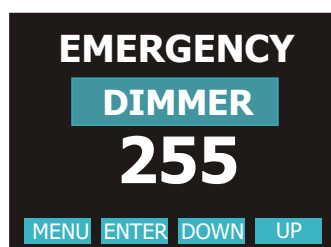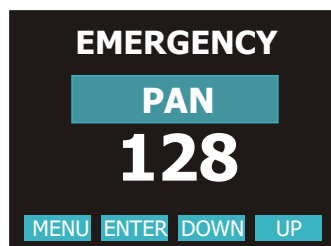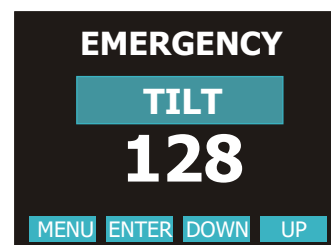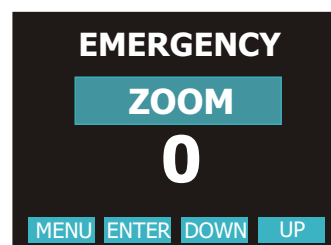
ZOOM
Default = 0

13- DISPLAY FUNCTIONS

👉 👉 DEFAULT SET   👉 👉   👉
Menu Up-Down   ENTER Up-Down   ENTER

DEFAULT SETTINGS
To restore default settings

DEFAULT SET

MENU ENTER DOWN UP

DEFAULT SET
SURE?
Menu - NO
Enter - YES

MENU ENTER DOWN UP

👉 👉 TEMPER. °C   👉
Menu Up-Down   ENTER

TEMPERATURE
Unit temperature

TEMPER. °C

028.7

MENU ENTER DOWN UP

👉 👉 TIME   👉 👉   👉
Menu Up-Down   ENTER Up-Down   ENTER

LIFE TIME
This menu show the total UNIT life time
and the RGBA life time

TIME
UNIT

13 Hr - 08 min

MENU ENTER DOWN UP

TIME
RED

0 Hr - 08 min

MENU ENTER DOWN UP

TIME
GREEN

0 Hr - 08 min

MENU ENTER DOWN UP

TIME
BLUE

0 Hr - 08 min

MENU ENTER DOWN UP

TIME
AMBER

0 Hr - 08 min

MENU ENTER DOWN UP

13- DISPLAY FUNCTIONS

SYSTEM

PAN INVERTION / TILT INVERTION / PAN-TILT SPEED / FAN MAX SPEED / RESET BY DMX / MOTORS FIRMWARE UPGRADE.

PAN INVERSION
This menu allows to set the Pan movement.
Normal or Reversed.

TILT INVERTION
This menu allows to set the Pan movement.
Normal or Reversed.

PAN TILT SPEED
Pan Tilt Speed control (1-4)

FAN MAX SPEED
This menu' allow to select the internal fans speed.

RESET BY DMX
This menu' allow to enable / disable the Motors reset control (Pan&Tilt and Zoom) via DMX.

MOTORS FIRMWARE UPGRADE
This menu' allow to upgrade the firmware for ZOOM and Pan&Tilt circuit boards.

SYTEM
PAN INVERSION
NORM
MENU ENTER DOWN UP

PAN INVERTION
Default = NORM

SYTEM
TILT INVERSION
NORM
MENU ENTER DOWN UP

TILT INVERTION
Default = NORM

SYTEM
PAN-TILT SPEED
4
MENU ENTER DOWN UP

PAN TILT SPEED CONTROL
Default = 4

SYTEM
FAN MAX SPEED
100%
MENU ENTER DOWN UP

FAN MAX SPEED
50% - 100%
Default = 100%

SYTEM
RESET BY DMX
ENAB
MENU ENTER DOWN UP

RESET BY DMX
Enable: Motors reset enabled via DMX (Default).
Disabled: Motors reset disabled via DMX.
Now: Instant motors reset.

SYTEM
MOTORS
FW UPGRADE
MENU ENTER DOWN UP

MOTORS FIRMWARE UPGRADE
Zoom and Pan&Tilt circuit boards firmware upgrade.

13- DISPLAY FUNCTIONS

SOFTWARE

SOFTWARE
LEDs circuit board software, MOTORS
circuit boards software (Pan&Tilt - Zoom)

SOFTWARE

LED

Id 0D0E001D
v1.19 Mar 30 2011

MENU　ENTER　DOWN　UP

SOFTWARE

Motors

Pan/Tilt v.1.7
Zoom v.1.8

MENU　ENTER　DOWN　UP

LEDs CIRCUIT BOARD SOFTWARE

MOTORS CIRCUIT BOARDS
SOFTWARE
PAN&TILT - ZOOM

14- PERIODIC CLEANING

Front lenses Glass

The dust can reduce the luminous output substantially. Regularly clean the front lenses glass using a soft cotton cloth, dampened with a specialist glasses cleaning solution.

Fans and air passages

The fans and air passages must be cleaned approximately every 6 weeks. This periodic cleaning will depend of course, on the conditions in which the projector is operating. Suitable instruments for performing this type of maintenance are a brush and a common vacuum cleaner or an air compressor. If necessary, clean the fans and air passages more frequently.

15- PERIODIC CONTROLS

Mechanical parts

Periodically check all mechanical parts and the gaskets, replacing them if necessary.

Electrical components

Check all electrical components for correct earthing and proper attachment of all connectors, refastening if necessary.
Attention: Disconnect mains power prior to removing the projector housing.

Fuse replacement

Locate the fuse, which protect the electronics, in the base of the NICK WASH 600.
Using a multimeter, test the condition of the fuse, replacing it with one of equivalent type if necessary.
Attention: Disconnect mains power prior to removing the projector housing.
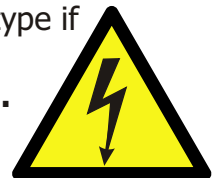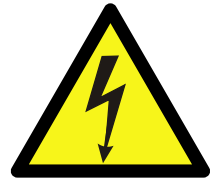
16- DMX PROTOCOL

17 CHANNELS MODE (DEFAULT FOR NO FAR MODELS)

1	**PAN msb 540°**
2	**PAN lsb**
3	**TILT msb 270°**
4	**TILT lsb**
5	**SPEED MOVEMENT**
6	**SHUTTER**
7	**DIMMER**
8	**RED**
9	**GREEN**
10	**BLUE**
11	**AMBER \ WHITE**
12	**WHITE PREPROGRAMMED**
13	**CTC**
14	**MACRO**
15	**FUNCTION**
16	**ZOOM**
17	**RESET**

DMX CHANNEL	1	Parameter: **PAN msb**

DMX CHANNEL	2	Parameter: **PAN lsb**

DMX CHANNEL	3	Parameter: **TILT msb**

DMX CHANNEL	4	Parameter: **TILT lsb**

DMX CHANNEL	5	Parameter: **SPEED MOVEMENT**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-10					**Standard**
11-25					**Fast movement**
26-127					**Vector mode from fast to slow**
128-247					**Variable time reaction to DMX signal (fast to slow)**
248-255					**Slow reaction time to dmx signal**

DMX CHANNEL	6	Parameter: **SHUTTER**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-9					**Black - out**
10-19					**Open**
20-29					**Black-out**
30-119					**Strobe(from 3.27 s to 30 ms)**
120-149					**Pulse up (from 42.6s to120ms)**
150-179					**Pulse down(from 42.6s to120ms)**
180-204		**Random strobe (Dimmer, Red, Green, Blue, Amber channels active)**			
205-229		**Full independent Random Strobe (Dimmer, Red, Green, Blue, Amber channels disabled)**			
230-255					**Open**

DMX CHANNEL	7	Parameter: **DIMMER**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-7					**Black-out**
8-255					**Proportional dimmer**

DMX CHANNEL	8	Parameter: **RED**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					**Proportional colour**

DMX CHANNEL	9	Parameter: **GREEN**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					**Proportional colour**

DMX CHANNEL	10	Parameter: **BLUE**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					**Proportional colour**

DMX CHANNEL	**11**	Parameter:**AMBER \ WHITE**

DMX range Value	Mid point DMX value	Move Range (degrees)	Mode	Option	Function
0-255					**Proportional colour**

DMX CHANNEL	**12**	Parameter: **WHITE (Pre-programmed White at diff. color temperature)**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-55	**23**				**No Function**
56-105	**80**				**Full (Red-Green-Blue at Full)**
106-155	**130**				**White DTS**
156-205	**180**				**Custom White Create (RGB levels selectable by DMX)**
206-255	**230**				**White CTC (Channel 13 CTC enabled)**

DMX CHANNEL	**13**	Parameter: **CTC (Color temperature correction)**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function

IF CHANNEL 12 WHITE PREPROGRAMMED = WHITE CTC (Dmx range value 206 - 255)

0-255	**Linear control temperature correction: 0 = 2800°K / 255 = 6800°K**

DMX CHANNEL	**14**	Parameter: **COLOUR MACROS**

IF: 👉 👉 DMX SET 👉 👉 MACRO 👉 👉 STD 👉
MENU Up-Down   ENTER Up-Down   ENTER Up-Down   ENTER

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-14					**No Function**
15-29					**Macro 1**
30-44					**Macro 2**
45-59					**Macro 3**
60-74					**Macro 4**
75-89					**Macro 5**
90-104					**Macro 6**
105-119					**Macro 7**
120-134					**Macro 8**
135-149					**Macro 9**
150-164					**Macro 10**
165-179					**Macro 11**
180-194					**Macro 12**
195-209					**Macro 13**
210-225					**Macro 14**
226-239					**Macro 15**
240-255					**Macro 16**

DMX CHANNEL	**14**	Parameter: **COLOUR MACROS**

IF: 👉 👉 DMX SET 👉 👉 MACRO 👉 👉 EXT 👉
MENU Up-Down   ENTER Up-Down   ENTER Up-Down   ENTER

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-14					**No Function**
15-24					**Macro 1**
25-34					**Macro 2**
35-44					**Macro 3**
45-54					**Macro 4**
55-64					**Macro 5**
65-74					**Macro 6**
75-84					**Macro 7**
85-94					**Macro 8**
95-104					**Macro 9**
105-114					**Macro 10**
115-124					**Macro 11**
125-134					**Macro 12**
135-144					**Macro 13**
145-154					**Macro 14**
155-164					**Macro 15**
165-174					**Macro 16**

DMX CHANNEL	**14**	Parameter: **COLOUR MACROS**

IF: 👉 👉 DMX SET 👉 👉 MACRO 👉 👉 EXT   👉

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
175-184					**Rainbow Speed 1 (6 Sec.)**
185-194					**Rainbow Speed 2 (15 Sec.)**
195-204					**Rainbow Speed 3 (30 Sec.)**
205-214					**Rainbow Speed 4 (45 Sec.)**
215-224					**Rainbow Speed 5 (60 Sec.)**
225-234					**Rainbow Speed 6 (120 Sec.)**
235-244					**Rainbow Speed 7 (150 Sec.)**
245-255					**Rainbow Speed 8 (180 Sec.)**

DMX CHANNEL	**15**	Parameter: **FUNCTIONS (Recall,Create and Store the Custom white)**

IF CHANNEL 12 WHITE PREPROGRAMMED = Dmx range value 156 - 205

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-79					**Custom White Recall**
80-160					**Custom White Create (Enable CH 18/19/20 for Custom white Creation)**
161-255					**Custom White Store (Store the Custom White created)**

DMX CHANNEL	**16**	Parameter:**ZOOM**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					**Linear ZOOM from Narrow to Wide (13,5°-40°)**

DMX CHANNEL	**17**	Parameter: **RESET**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-15					**No Effect**
16-255					**Total Reset (activation after 3 sec.)**

16- DMX PROTOCOL

20 CHANNELS MODE (DEFAULT FOR FAR MODELS)

1	**PAN msb 540°**
2	**PAN lsb**
3	**TILT msb 270°**
4	**TILT lsb**
5	**SPEED MOVEMENT**
6	**PAN FAR**
7	**TILT FAR**
8	**SHUTTER**
9	**DIMMER**
10	**RED**
11	**GREEN**
12	**BLUE**
13	**AMBER \ WHITE**
14	**WHITE PREPROGRAMMED**
15	**CTC**
16	**MACRO**
17	**FUNCTION**
18	**ZOOM**
19	**NO FUNCTION**
20	**RESET**

DMX CHANNEL	**1**	Parameter: **PAN msb**

DMX CHANNEL	**2**	Parameter: **PAN lsb**

DMX CHANNEL	**3**	Parameter: **TILT msb**

DMX CHANNEL	**4**	Parameter: **TILT lsb**

DMX CHANNEL	**5**	Parameter: **SPEED MOVEMENT**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-10					**Standard**
11-25					**Fast movement**
26-127					**Vector mode from fast to slow**
128-247					**Variable time reaction to DMX signal (fast to slow)**
248-255					**Slow reaction time to dmx signal**

DMX CHANNEL	6	Parameter: **PAN FAR**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-010					Position mode 540° (standard path)
011-020					Position mode 360° (1 turn)
021-030					Position mode 720° (2 turns)
031-040					Position mode 1080° (3 turns)
041-050					Position mode 1440° (4 turns)
051-060					Position mode 1800° (5 turns)
061-070					Position mode 2160° (6 turns)
071-080					Position mode 2520° (7 turns)
081-090					Position mode 2880° (8 turns)
091-100					Position mode 3240° (9 turns)
101-110					Position mode 3600° (10 turns)
111-120					Position mode 360° smart path
121-182					Forward spin rotation speed from max to min
183-193					Stop
194-255					Reverse spin rotation speed from min to max

DMX CHANNEL	7	Parameter: **TILT FAR**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-010					Position mode 270° (standard path)
011-020					Position mode 360° (1 turn)
021-030					Position mode 720° (2 turns)
031-040					Position mode 1080° (3 turns)
041-050					Position mode 1440° (4 turns)
051-060					Position mode 1800° (5 turns)
061-070					Position mode 2160° (6 turns)
071-080					Position mode 2520° (7 turns)
081-090					Position mode 2880° (8 turns)
091-100					Position mode 3240° (9 turns)
101-110					Position mode 3600° (10 turns)
111-120					Position mode 360° smart path
121-182					Forward spin rotation speed from max to min
183-193					Stop
194-255					Reverse spin rotation speed from min to max

DMX CHANNEL	**8**	Parameter: **SHUTTER**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-9					**Black - out**
10-19					**Open**
20-29					**Black-out**
30-119					**Strobe(from 3.27 s to 30 ms)**
120-149					**Pulse up (from 42.6s to120ms)**
150-179					**Pulse down(from 42.6s to120ms)**
180-204	**Random strobe (Dimmer, Red, Green, Blue, Amber channels active)**				
205-229	**Full independent Random Strobe (Dimmer, Red, Green, Blue, Amber channels disabled)**				
230-255					**Open**

DMX CHANNEL	**9**	Parameter: **DIMMER**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-7					**Black-out**
8-255					**Proportional dimmer**

DMX CHANNEL	**10**	Parameter: **RED**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					**Proportional colour**

DMX CHANNEL	**11**	Parameter: **GREEN**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					**Proportional colour**

DMX CHANNEL	**12**	Parameter: **BLUE**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					**Proportional colour**

DMX CHANNEL	13	Parameter:**AMBER \ WHITE**

DMX range Value	Mid point DMX value	Move Range (degrees)	Mode	Option	Function
0-255					**Proportional colour**

DMX CHANNEL	14	Parameter: **WHITE (Pre-programmed White at diff. color temperature)**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-55	**23**				**No Function**
56-105	**80**				**Full (Red-Green-Blue at Full)**
106-155	**130**				**White DTS**
156-205	**180**				**Custom White Create (RGB levels selectable by DMX)**
206-255	**230**				**White CTC (Channel 15 CTC enabled)**

DMX CHANNEL	15	Parameter: **CTC (Color temperature correction)**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function

IF CHANNEL 14 WHITE PREPROGRAMMED = WHITE CTC (Dmx range value 206 - 255)

0-255	**Linear control temperature correction: 0 = 2800°K / 255 = 6800°K**

DMX CHANNEL	**16**	Parameter: **COLOUR MACROS**

IF: 👉 👉 DMX SET 👉 👉 MACRO 👉 👉 STD 👉
MENU Up-Down · ENTER Up-Down · ENTER Up-Down · ENTER

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-14					**No Function**
15-29					**Macro 1**
30-44					**Macro 2**
45-59					**Macro 3**
60-74					**Macro 4**
75-89					**Macro 5**
90-104					**Macro 6**
105-119					**Macro 7**
120-134					**Macro 8**
135-149					**Macro 9**
150-164					**Macro 10**
165-179					**Macro 11**
180-194					**Macro 12**
195-209					**Macro 13**
210-225					**Macro 14**
226-239					**Macro 15**
240-255					**Macro 16**

DMX CHANNEL	**16**	Parameter: **COLOUR MACROS**

IF: 👉 👉 DMX SET 👉 👉 MACRO 👉 👉 EXT 👉
MENU Up-Down · ENTER Up-Down · ENTER Up-Down · ENTER

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-14					**No Function**
15-24					**Macro 1**
25-34					**Macro 2**
35-44					**Macro 3**
45-54					**Macro 4**
55-64					**Macro 5**
65-74					**Macro 6**
75-84					**Macro 7**
85-94					**Macro 8**
95-104					**Macro 9**
105-114					**Macro 10**
115-124					**Macro 11**
125-134					**Macro 12**
135-144					**Macro 13**
145-154					**Macro 14**
155-164					**Macro 15**
165-174					**Macro 16**

DMX CHANNEL	16	Parameter: **COLOUR MACROS**

IF: 👉 👉 DMX SET 👉 👉 MACRO 👉 👉 EXT   👉

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
175-184					**Rainbow Speed 1 (6 Sec.)**
185-194					**Rainbow Speed 2 (15 Sec.)**
195-204					**Rainbow Speed 3 (30 Sec.)**
205-214					**Rainbow Speed 4 (45 Sec.)**
215-224					**Rainbow Speed 5 (60 Sec.)**
225-234					**Rainbow Speed 6 (120 Sec.)**
235-244					**Rainbow Speed 7 (150 Sec.)**
245-255					**Rainbow Speed 8 (180 Sec.)**

DMX CHANNEL	17	Parameter: **FUNCTIONS (Recall,Create and Store the Custom white)**

IF CHANNEL 14 WHITE PREPROGRAMMED = Dmx range value 156 - 205

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-79					**Custom White Recall**
80-160					**Custom White Create (Enable Custom white Creation)**
161-255					**Custom White Store (Store the Custom White created)**

DMX CHANNEL	18	Parameter:**ZOOM**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					**Linear ZOOM from Narrow to Wide (13,5°-40°)**

DMX CHANNEL	19	Parameter:**NO FUNCTION**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					**NO FUNCTION**

DMX CHANNEL	20	Parameter: **RESET**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-15					**No Effect**
16-255					**Total Reset (activation after 3 sec.)**

NOTES

NOTES

MADE IN ITALY $\mathsf{C}\mathsf{E}$

DTS

The Lighting Company

ISO 9001:2000

D.T.S. quality system
is certified to the
ISO 9001:2000 standard

D.T.S. products are designed
and manufactured at the D.T.S.
plants in Italy

PROUDLY · MADE IN ITALY

0517I178

0517I178

D.T.S. Illuminazione s.r.l - Via Fagnano Selve 10-12-14   47843 - Misano Adriatico (RN) Italy
Tel. +39 0541 611131 Fax +39 0541 611111   info@dts-lighting.it   www.dts-lighting.it